

DYNAMIC RANGE COMPRESSION OF OUTPUT CHANNEL DATA OF
AN IMAGE SENSOR

ABSTRACT OF THE DISCLOSURE

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A method (S100) for dynamic range compression of output channel data from an image sensor (2) comprising an array of sensor cells. The method (S100) comprises selecting a window (S130) in the channel data, the window having a reference pixel value and a plurality of nearby pixel values. The reference pixel value originates from a reference cell that is one of the sensor cells and the nearby pixel values originate from the sensor cells that are in close proximity to the reference cell. There is a step of multiplying (S140) the pixel values, in the window, by a respective weight value to provide weighted pixel values and then adding (S150) the weighted pixel values to provide a convolution value. Thereafter, there is a step of providing (S160) a dynamic range compression value for the window from a selected one of the pixel values and said convolution value and then an assigning step (S170) assigns the dynamic range compression value to a selected pixel location comprising part of an image.